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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/809,216	03/25/2004	Sciji Kawa	450100-04966	6582
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William S. Frommer, Esq.			FABER, DAVID	
FROMMER LAWRENCE & HAUG LLP 745 Fifth Avenue			ART UNIT · ·	PAPER NUMBER
New York, NY 10151			2178	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/809,216	KAWA ET AL.
		Examiner	Art Unit
		David Faber	2178
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>01 Not</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1,3-9 and 11-14 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1,3-9 and 11-14 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.	
Applicati	on Papers	• "	
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>25 March 2004</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	a) $\square$ accepted or b) $\boxtimes$ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority u	inder 35 U.S.C. § 119		
12) <u> </u>	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachmeni	t(s)		•
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te

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#### **DETAILED ACTION**

- 1. This office action is in response to the amendment filed on 1 November 2006.
- 2. Claims 1, 5, 7-9, 13 and 14 have been amended. Claims 2 and 10 have been cancelled by the Applicant.
- 3. The rejection of Claim 5 under 35 USC 112, second paragraph, has been withdrawn necessitated by the amendment. The rejection of Claims 8 and 14 under 35 U.S.C. 101 has been withdrawn necessitated by the amendment. The rejection of Claims 1 and 3-8 under 35 U.S.C. 102(b) as being anticipated by Yasuda et al (EP 0 855 714 A2, published 7/29/1998) has been withdrawn necessitated by the amendment.
- 4. Claims 1, 3-9, and 11-14 are pending. Claims 1, 7, 8, 9, 13, and 14 are independent Claims.

#### **Drawings**

5. The drawings remain objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: S61, S62, S63, S64, S65, S67, S68 of FIG 27; S91, S92, S94, S99 of FIG 32, and S121-S128 of FIG. 35. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing

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date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 112

6. The following is a quotation of the sixth paragraph of 35 U.S.C. 112:

An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

7. As per independent Claim 1, Claim 1 remain rejected since the claim recites the limitation "first acquiring means for..." Examiner is unsure is the means for is referring to any hardware since apparatus is still referring to software, pro se.

## Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1-6, 9, and 11-12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

For your reference, below is a section from MPEP 2105:

(a) Functional Descriptive Material: "Data Structures" Representing Descriptive Material Per Se or Computer Programs Representing Computer Listings Per Se

Data structures not claimed as embodied in computer-readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760

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(claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory.

Similarly, computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs, are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer which permit the computer program's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. Accordingly, it is important to distinguish claims that define descriptive material per se from claims that define statutory inventions.

Computer programs are often recited as part of a claim. Office personnel should determine whether the computer program is being claimed as part of an otherwise statutory manufacture or machine. In such a case, the claim remains statutory irrespective of the fact that a computer program is included in the claim. The same result occurs when a computer program is used in a computerized process where the computer executes the instructions set forth in the computer program. Only when the claimed invention taken as a whole is directed to a mere program listing, i.e., to only its description or expression, is it descriptive material per se and hence nonstatutory.

Since a computer program is merely a set of instructions capable of being executed by a computer, the computer program itself is not a process and Office personnel should treat a claim for a computer program, without the computer-readable medium needed to realize the computer program's functionality, as nonstatutory functional descriptive material. When a computer program is claimed in a process where the computer is executing the computer program's instructions, Office personnel should treat the claim as a process claim. See paragraph IV.B.2(b), below. When a computer program is recited in conjunction with a physical structure, such as a computer memory, Office personnel should treat the claim as a product claim.

10. Claims 1-6, 9, and 11-12 remain rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims appear to be claiming "software systems" i.e. systems without hardware indication, which is computer program per se. Since the computer program is not embodied on a tangible computer readable medium, they appear non-statutory.

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## Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 12. Claims 9 and 11-14 remain rejected under 35 U.S.C. 102(b) as being anticipated by Yasuda et al (EP 0 855 714 A2, published 7/29/1998).

As per independent Claim 9, Yasuda et al discloses an apparatus comprising:

- acquiring means for acquiring reproduction control information, which is created in accordance with edit point information describing an edit point set for data and which serves to control reproduction of said data; and reproducing means for reproducing said data in accordance with said reproduction control information acquired by said acquiring means. (Column 5, line 45-58: Discloses a storage medium comprising picture data as well as reproduction information which is read out by a read-out unit (acquiring data), wherein this information would be use to reproduce data such discloses in FIG 3(A-C), and FIG 6.)
- determining means and selecting means for use when said reproduction
  control information includes information for indicating as a reproduction object
  data, which are relocated by an information creating apparatus for creating
  said reproduction control information and which are in proximity of said edit

point (Column 5, lines 45-50: Discloses coded data string to reproduced, wherein the coded data is selected and reproduced (Column 6, lines 2-9,16-23; FIG 3,8; Column 9, lines 5-46)

- determining means determines a location at which to start reproducing said data accordance with said reproduction control information; (Column 5, lines 52-54: reproduction start point)
- selecting means selects a decoder for reproducing said data; and (FIG 5;
   Column 6, lines 2-9, 33-49: Discloses a decoding unit is presented. During operation, the method uses (selects) the decoder presents to perform its functionality.)
- wherein said reproducing means reproduces said data based on said reproduction control information, on the starting location determined by said determining means, and on said decoder selected by said selecting means.
   (Column 5, lines 2-9, 16-24, 29-49)
- wherein the selecting means selects a decoder from a plurality of decoders in accordance with the reproduction control information which includes designation information. (Col 6, lines 39-48, FIG 7: Decoding unit contains a plurality of decoders wherein a decoder is selected from the plurality of decoder. The information contains designation information of the designated start point and end point (Col 5, line 51-55))

As per dependent Claim 11, Claim 11 recites similar limitations as in Claim 9, and is similar rejected under rationale.

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As per dependent Claim 12, Claim 12 recites similar limitations as in Claim 9, and is similar rejected under rationale.

As per independent Claim 13, Claim 13 recites a method for performing the method of Claim 9, and is similarly rejected under rationale.

As per independent Claim 14, Claim 14 recites a program for performing the method of Claim 9, and is similarly rejected under rationale.

### Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 1, and 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuda et al (EP 0 855 714 A2, published 7/29/1998) in further in view of Kelly et al (WO 99/48096, published 9/23/1999).

As per independent Claim 1, Yasuda et al discloses a apparatus comprising:

first acquiring means for acquiring edit point information and describing an
edit point set for said data; creating means for creating reproduction control
information in accordance with said edit point information acquired by said
first acquiring means, said reproduction control information resulting from an
editing process based on said edit point and serving to control reproduction of

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said data. (Column 5, line 45-58: Discloses a storage medium comprising picture data as well as reproduction information which is read out by a read-out unit (acquiring data), wherein this information would be use to reproduce data such discloses in FIG 3(A-C), and FIG 6.)

- creates said reproduction control information including information for indicating said data relocated by said relocating means as a reproduction object (Column 5, lines 45-50: Discloses coded data string to reproduced, wherein the coded data is selected and reproduced (Column 6, lines 2-9,16-23; FIG 3,8; Column 9, lines 5-46)
- relocating means for relocating data in proximity in proximity of said edit point
  and determines the location at which to create data in proximity of the edit
  point in accordance with the result of the determining means. (Column 5, lines
  52-54: Contains a data on a production start point and end point for relocating
  (reproduction) data. In addition, when reproducing data, data is being
  created.)

However, Yasuda et al fails to discloses determining means for determining whether it is possible for said reproducing apparatus to reproduce in real time said data resulting from said editing process; and relocating means for relocating data in proximity of said edit point if said determining means determines that it is impossible for said reproducing apparatus to reproduce in real time said data resulting from said editing process. However, Kelly et al discloses a system recording real time information signal for editing (Page 1, lines 1-5) wherein on Page 5, lines 15-35, Kelly et al discloses on

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how their system function when determining using real time data and wherein if the data is not real data.

It would been obvious to one of ordinary skill in the art at the time of Applicant's invention to have combined Yasuda et al's method with Kelly et al's method since Kelly et al's method would have provided the benefit for a real time information signal recorded earlier on the record carrier can be reproduced without any interruption.

As per dependent Claim 3, Yasuda et al discloses designating a decoder.

(Column 6, lines 2-9; 29-49, FIG. 5: Discloses being delivered to a decoder, and its functionality)

As per dependent Claim 4, Yasuda et al discloses determining a location at which said reproducing apparatus reproducing said data, and information for designating the starting location determined by said determining means. (Column 5, lines 52-55; Column 8, lines 48-50)

As per dependent Claim 5, Yasuda et al discloses designating said starting location by said determining means using address information being processed by said reproducing apparatus. (Column 8, line 48 – Column 9, line 4: Containing the data for the starting point would include the address of the location within the signal.)

As per dependent Claim 6, Claim 6 recites similar limitations as in Claim 1 and is similarly rejected under rationale. Furthermore, Yasuda et al discloses an apparatus further disclosing comprising second acquiring means which, if said data are constituted by pictures, then acquires picture information about said pictures; wherein said creating means creates said reproduction control information in accordance with said picture

information acquired by said second acquiring means. (Column 5, line 30- Column 6, lines 23: Discloses coded data string consisting of aforementioned I pictures, B pictures, and P pictures wherein a read-out unit reads (acquires) the data from the storage medium wherein reproduction is obtained that used for editing the picture data.)

As per independent Claim 7, Claim 7 recites a method for performing the apparatus of Claim 1 and is similarly reject under rationale.

As per independent Claim 8, Claim 8 recites a program for performing the apparatus of Claim 1 and is similarly reject under rationale.

#### Response to Arguments

15. Applicant's arguments with respect to claims 1-8 have been considered but are most in view of the new ground(s) of rejection.

In regards to the arguments addressed by the Applicant referring to the new limitations of Claims 1-8 brought forth in the amendment has change the scope of the independent claims in regards of determining means for determining whether it is possible for said reproducing apparatus to reproduce in real time said data resulting from said editing process; and relocating means for relocating data in proximity of said edit point if said determining means determines that it is impossible for said reproducing apparatus to reproduce in real time said data resulting from said editing process has been viewed by the new grounds of rejection under Kelly et al.

16. Applicant's arguments filed 1 November 2006 have been fully considered but they are not persuasive.

- 17. In regards to Applicant's arguments that a substitute specification has been supplied to the Examiner thereby obviating the objection to the Drawings, the Examiner disagrees. The Examiner did not receive a substitute specification that showed changes to the specification. Therefore, the objection to the Drawings remains.
- 18. In regards to Applicant's arguments of the 35 USC 101 rejections to Claims 1-6 and 9-12, the Applicant states that the claims are apparatus claims and therefore comply with the statutory subject matter requirement, the Examiner disagrees.

In response, the claims, themselves, lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory. They are, at best, functional descriptive material per se. Thus, in regards to claims 1-6 and 9-12, the claims, as written, appear to be claiming "software systems" i.e. systems without hardware indication, which is computer program per se. The claims as written do not recite any hardware indication.

19. In regards to Applicant's arguments of the 35 USC 112, sixth paragraph, rejection to Claim 1, Applicant argues the claim provides a clear means plus function step within the bounds of an apparatus. However, the Examiner disagrees. Since Claim

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1 still remains rejected under 35 USC 101 as being view a "software system", the Examiner is still unsure the means for is referring to any hardware since apparatus is still referring to software, pro se.

20. In regards to Applicant's arguments of Claim 9 that Yasuda fails to teach or suggest determining means and selecting means for use when said reproduction control information includes information for indicating as a reproduction object data, which are relocated by an information creating apparatus for creating said reproduction control information and which are in proximity of said edit point, wherein said determining means determines a location at which to start reproducing said data in accordance with said reproduction control information, wherein said selecting means selects a decoder for reproducing said data, wherein said reproducing means reproduces said data based on said reproduction control information, on the starting location determined by said determining means, and on said decoder selected by said selecting means, and wherein the selecting; means selects a decoder from a plurality of decoders in accordance with the reproduction control information which includes designation information; however, the Examiner disagrees.

Yasuda et al discloses the features of claim 9 of a reproducing apparatus comprising:

 determining means and selecting means for use when said reproduction control information includes information for indicating as a reproduction object data, which are relocated by an information creating apparatus for creating

said reproduction control information and which are in proximity of said edit point (Column 5, lines 45-50: Discloses coded data string to reproduced, wherein the coded data is selected and reproduced (Column 6, lines 2-9,16-23; FIG 3,8; Column 9, lines 5-46)

- determining means determines a location at which to start reproducing said data accordance with said reproduction control information; (Column 5, lines 52-54: reproduction start point)
- selecting means selects a decoder for reproducing said data; and (FIG 5;
   Column 6, lines 2-9, 33-49: Discloses a decoding unit is presented. During operation, the method uses (selects) the decoder presents to perform its functionality.)
- wherein said reproducing means reproduces said data based on said reproduction control information, on the starting location determined by said determining means, and on said decoder selected by said selecting means.
   (Column 5, lines 2-9, 16-24, 29-49)
- wherein the selecting means selects a decoder from a plurality of decoders in accordance with the reproduction control information which includes designation information. (Col 6, lines 39-48, FIG 7: Decoding unit contains a plurality of decoders wherein a decoder is selected from the plurality of decoder. The information contains designation information of the designated start point and end point (Col 5, line 51-55))

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#### Conclusion

21. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Faber whose telephone number is 571-272-2751. The examiner can normally be reached on M-F from 8am to 430pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong, can be reached on 571-272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Faber Patient Examiner AU 2178

SUPERVISORY PATENT EXAMINER

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